June-19-12 1:17:06 PM

Item ID: Revision ID:	D212-664-20	ITRN			Accept	*N900	1040	100)* ፡	Setup Sta	rt *N	S1*
Item Name:	Crosstube Turi	ning Detail								Sto	p *N	S2*
Start Date: Required Date: Reference:	19/06/2012 03/07/2012	Start Qty Req'd Qt		*1* *1*		Cust Item Customer					7.0	() /
Approvals:	Process Plan QC:	n: <u>M</u> _	.5	Date: 12/06/19 Date:	Tooling: SPC (Y/N):		Date: Date:		I	Run Sta Sto	ν Ι	R1* R2*
Sequence ID/ Work Center ID)	Operation Description			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revi	ision Nbr							WA			
D212-664-241	Rev	D										
100					0.00							
100		MORI SEIK	I CNC LATI	HE LARGE					1	C		199
Mori Seiki			Memo	(44.8)	0.00				(-	Ψ		
Mori Seiki CNC Lath	he Large		2-Turn first s	rith sand & install plugs DT8 side as per Folio FA114 sition lines only, **do not sa		er Folio FA114						910M.
¢				stard file, brush file repeated sandpaper coarser than 320 g		7				162		
110		QC1- Inspec	t dimensions	to dimension sheet	0.00							
110	49									OS		
QC			Memo		0.00				—	7		- 1 0: (
Quality Control		.v.			Cas .	· •	÷ \$					arm L 12/08/1

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June-19-12 1:17:06 PM

Item ID: D212-664-201TRN Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Turning Detail **Start Date:** Start Qty: 1.00 19/06/2012 **Cust Item ID: Required Date:** 03/07/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Approvals: **Process Plan:** Date: Tooling: Date: Stop SPC (Y/N): Date: Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Work Center ID Description **Run Hours** Qty Code Qty Number Stamp 120 0.00 *120* MORI SEIKI CNC LATHE LARGE Mori Seiki 0.00 Memo Mori Seiki CNC Lathe Large 1-Turn second side as per Folio FA114 2-Blend transition lines only, **do not sand whole tube**: *Use mill bastard file, brush file repeatedly with file card. *Do not use sandpaper coarser than 320 grit. FOLIO REV: DWG REV: 3-Remove sand and plugs 4- scribe batch # and part # as per dwg

130

QC1- Inspect dimensions to dimension sheet

0.00

130

QC

Memo

0.00

Quality Control

mm 1 12/08/13

4.54

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NCR:	Yes	/	No

WORK ORDER NON-CONFORMANCE / UPDATE

DOACAIA	_ Date: 12/08/27	
1	OMAIO.	

										QA Closed:	Date:	8/11/10/12
Work Order	: 85	5991			DISPOSITION			A	GAINST DE	PARTMENT	/PROCESS	
Part No	D21		1-20	ITRN	Rework Scrap Use-as-is Work Order Update		1	Machining Sm noforming Fi	osstube nall Fab nishing nposite	-	od. Eng. Coor. re/Packaging Supplier Other	Engineering Quality Quality
Root					ption of work order update		Initial	Action		Sign &		
Cause	Date	Step	Qty		or Non-conformance	Cr	ief Eng	Description		Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Offset/Setup Other Process Supplier Training Unauthorized	14/4/13	jou	1	Cuf.	F 15, 0,002" under vance on 0.D.	12	PHOLY	Acceptable		Nolly	DAS 16 17/00/13	26011)
					F	AUL	T CATE	GORY				<u> </u>
Landing	Gear				Hardware			General				
	Bending P Centre No Cracks	t Concer	itric to O	y/s	Breaking Missing Size/Length		Burrs Contami Cut Too	Short		Maintenand Mislabeled Off-Set		Set-up Supplier Temperature/Cure
	Crushed/C			<u> </u>	Spinning			ntation/Data		Orientation N	ļ	Weld
 	Other	saib iu	lube	\vdash	Threading Wrong	ш	Finish Inspection	on Incomplete		Out of Calibra Out of Seque		Wrong Stock Pulled
	Positioned	Wrong		لـــا	Drill Holes		•	on Unqualified		Out of Seque	· ·	Other
	Ripples on	_	end		Misaligned	_	-	ons incomplete/Unclear		Over/Under t	لــــا	Other
	Torque Wa				Ovalized	-	N. C. S. L.	res/Tooling		Part Lost	energe to the sales	· · · · · · · · · · · · · · · · · · ·
1	Turning Se	quence			Over/Undersized	_	Kit Incor	· ·	ļ	Part Moved		
F	Wave/Twi	st in Tub	е		Too Many		Kit Missi	ng		Raw Material		

Page 3

June-19-12 1:17:06 PM

Item ID: **Revision ID:** D212-664-201TRN

Crosstube Turning Detail

Accept

N900040100

Setup Start

Start Date:

Item Name:

19/06/2012 Start Qty: 1.00

Cust Item ID:

Required Date: 03/07/2012

Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/ Work Center ID

Operation Description

QC8- Inspect parts - second check

Set Up/ **Run Hours**

Tool # Plan Tool ID

Accept

Reject Qty

Reject Insp. Number Stamp

140

140

Memo

Code Qty

12-8+13

145

145

Quality Control

Crosstubes

0.00

0.00

Crosstubes

GRIND ONLY TRANSITION LINES SMOOTH LONGITUDE WAY.

150

Memo

0.00

150 HandFXtube

Memo

0.00

Hand Finishing Crosstube

1-Pressure wash tube insid and out 2-Acid Etd x tub inside and out Use red scotch brita

2-8-10

												DQA:	:D	ate	
NCR:	Yes	/ No				WORK ORDER NON-C	10:	NFOR	MANCE / UPI	DATE					
						T						QA Closed:	: D	ate	:
Work Orde	er: _			= 2		DISPOSITION				AGAINST	DI	EPARTMENT	r/PROCESS		
Part N	Vo.					Rework Scrap			Skid-tube Machining	Crosstube Small Fab			od. Eng. Coor		Engineering
NCR N						Use-as-is Work Order Update			moforming Large Fab	Finishing Composite	_	Kec/Sto	ore/Packaginį Supplie Othe	r	Quality
Root					Descri	iption of work order update	Ir	nitial	Acti	ion		Sign &			
Cause		Date	Step	Qty		or Non-conformance	Chi	ief Eng		ription		Date	Verification	on	QC Inspector
Doc/Data		1							-	•		<u> </u>			
Equip/Tooling	_	,													
Operator	_			1		2									
Material	_	,	1	. '				ł				!			
Offset/Setup	_	,	1 /	1 '											
Other	_	1	1 '	1 '											
Process		1	1 '	1 '											
Supplier	_	J	1 !	'		32							ĺ		
Training	4	J	1					ł			-	<u> </u>	~		
Jnauthorized				لــــا	<u></u>										
4				<u> </u>			ULT	T CATE			_	0.4			<u> </u>
Landin			_			Hardware			General	• •	_				
F	_		asses Bel			Breaking	_	Burrs		L		Maintenand	ce		Set-up
F			t Concen	itric to (Missing		Contami		L		Mislabeled			Supplier
-		racks		.,		Size/Length	_	Cut Too S				Off-Set			Temperature/Cure
ŀ			Crimp at B			Spinning	┛┛)ocumer	ntation/Data			Orientation N	Misread		Weld
<u> </u>			Strip in T	ſube		Threading		inish				Out of Calibra	ation		Wrong Stock Pulled
F		ther			□ '	Wrong	—;		on Incomplete	L		Out of Seque	nce		,
F		ositioned	_			Drill Holes	_		on Unqualified			Outside Dime	ensions		Other
F			Inner Be			Misaligned			ons Incomplete/Un	nclear		Over/Under t	tolerance		
ļ.			aves in Ex	trusion	 	Ovalized	Ji;	igs/Fixtu	res/Tooling		7	Part Lost	,		
L	_	irning Sec	•		-	Over/Undersized	Ki	(it Incorr	ect		٦	Part Moved	,		
	Wa	ave/Twis	st in Tube	3	7	Too Many	Ki	it Missin	ng		7	Raw Material			

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev F

0.00

Memo

120

Quality Control

MUJ 12/08/20

June-19-12 1:17:10 PM

Work Order ID: 85990

85990

D212-664-201TRN

D212-664-201TRN

Parent Item Name: Crosstube Turning Detail

Start Date: 19/06/2012

Required Date: 03/07/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

Parent Item:

IPP Rev:A 08-03-06 new issue DD verified by:ec

IPP Rev B 08.04.02 Removed polish EC verified DD

												:	
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Otv	Qty Issued	Date Issued	Status
D6006-129	53155 5 50 0 6	Manufactured				120	Each	27.0000	1	1			
DC00C 4	∩ ∩								ماء ماء	,			

D6006-129

Crosstube Material

Location	Loc Qty	Loc Code
LG	27	
23970	2	
26550	3	
34690	1	
69838	21	

**

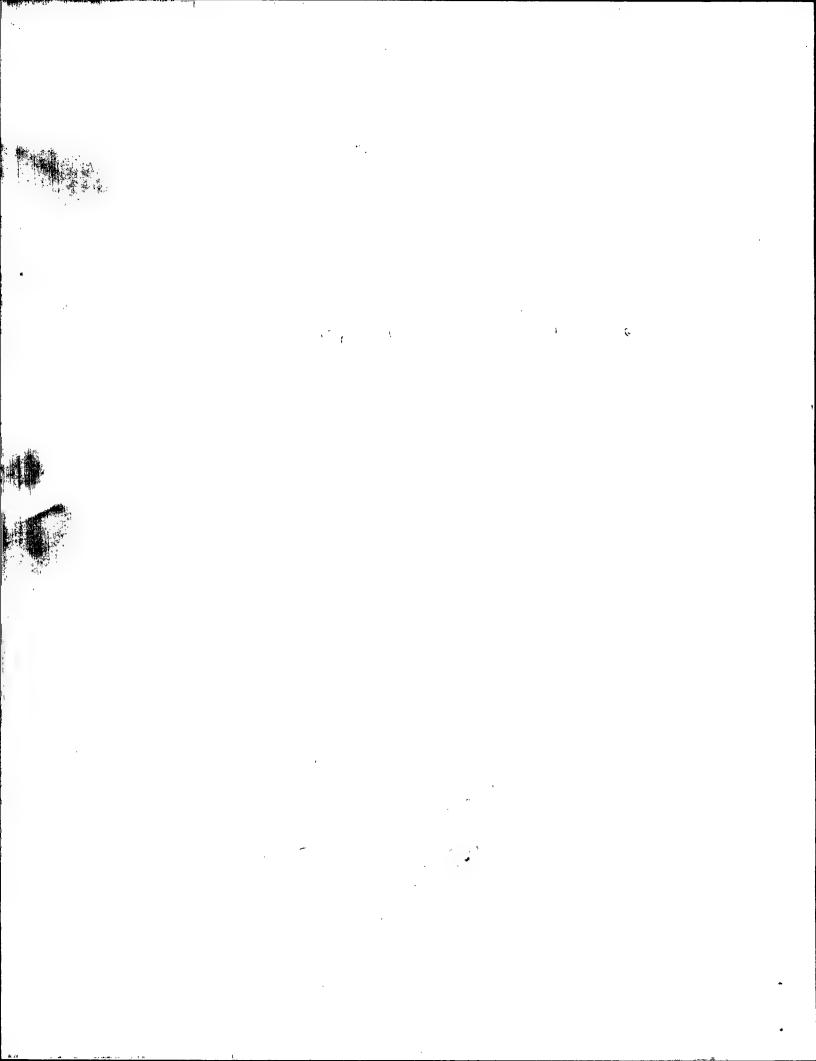
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										DQA:	Da	te:
NCR: Ye	es / No				WORK ORDER NO	N-CO	NFOR	MANCE / UPDATE		,		
					T					QA Closed:	Da	te:
Work Order	: .				DISPOSITION			AGAIN	NST D	EPARTMENT	/PROCESS	4
Part No					Rework						d. Eng. Coor.	
1 411 140					Scrap Use-as-is	_		Machining Small F noforming Finish	—	Rec/Sto	re/Packaging	
NCR No					Work Order Update		riteri	Large Fab Compos	~ ⊢	}	Supplier Other	
Root				Descri	ption of work order update		Initial	Action		Sign &		
Cause	Date	Step	Qty	(or Non-conformance	C	hief Eng	Description		Date	Verification	n QC Inspecto
Doc/Data	_											1 (22)
quip/Tooling	-				·							
perator	-	j										
laterial	4											
ffset/Setup ther	-											·
rocess	1				**	-						
upplier	-	,				-						-
raining	1				•							
nauthorized	1					-						
	.l					FAUI	LT CATE	ORY				<u> </u>
Landing	Gear				Hardware			General				٠٠ تور ١٠
	Bending P	asses Bel	ow Min	,	Breaking		Burrs			Maintenand	ce [Set-up
-47	Centre No	t Concen	tric to O	/s	Missing		Contami	nation		Mislabeled	·	Supplier
	Cracks				Size/Length		Cut Too	Short		Off-Set		Temperature/Cur
	Crushed/C	rimp at E	Bending		Spinning		Docume	ntation/Data		Orientation N	/lisread	Weld
	Inspection	Strip in	Tube	 .	Threading		Finish			Out of Calibra	ation	Wrong Stock Pulle
	Other				Wrong		Inspectio	n Incomplete		Out of Seque	nce	
	Positioned	•			Drill Holes		Inspection	n Unqualified		Outside Dime	ensions	Other
	Ripples on				Misaligned	-	.4	ons Incomplete/Unclear		Over/Under t	olerance	
-50	Torque Wa		trusion		Ovalized	*	Jigs/Fixtu	res/Tooling		Part Lost	-	
	Turning Se	•			Over/Undersized		Kit Incorr	g:		Part Moved	χ.	
	Wave/Twis				Too Many		Kit Missing Ra			Raw Material		

DART AEROSPACE LTD	Work Order:	85990
Description: Crosstube Assembly (205/212 High Aft)	Part Number:	D212-664-241
Inspection Dwg: D212-664-241 Rev: D		Page 1 of 2

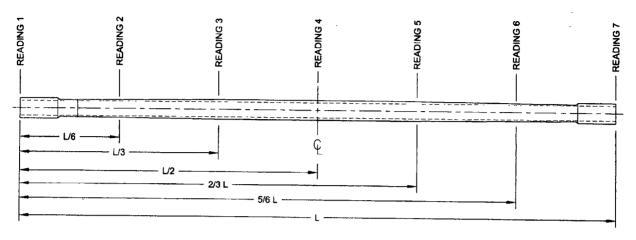
FIRST ARTICLE INSPECTION CHECKLIST

	spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	0.200	+/-0.010	, 200			vern	CNC-08
	R0.063	+/-0.010	-063			R6	
	2.990	+0.005/-0 000	2.991	/		iern	CNC-08
	5.237	+/-0.030	5.237	~	-	1	
	2.600	+0.005/-0.000	2.604	/			
_	2.686	+0.005/-0.000	2-696				
EA	2.770	+0.005/-0.000	12-775			1	
SIDE	2.854	+0.005/-0.000	2.858				·
٠,	2.938	+0.005/-0.000	2.240				
	3.021	+0.005/-0.000	3.026	/			
	3.133	+0.005/-0.000	3.138	/			
	3.179	+0.005/-0.000	3.162	-		1	
	0.200						
	0.200	+/-0.010	.260	-//		Vern	CNOGS
	R0.063	+/-0.010	.063			RG	
	2.990	+0.005/-0.000	2-990			vern	CNG-08
	5.237	+/-0.030	5,237			11	
	2.600	+0.005/-0.000	2.604				
	2.686	+0.005/-0.000	2.690				
m	2.770	+0.005/-0.000	2.775				
SIDE	2.854	+0.005/-0.000	2-857	/			
S	2.938	+0.005/-0.000	2.940	7			
	3.021	+0.005/-0.000	3.026				
ļ	3.133	+0.005/-0.000	3.138	/			
	3.179	+0.005/-0.000	3-182	6		9	
	124.362	+/-0.020	124.360			tape	6-22
}						V	



DART AEROSPACE LTD	Work Order:	85990
Description: Crosstube Assembly (205/212 High Aft)	Part Number:	D212-664-241
Inspection Dwg: D212-664-241 Rev: D		Page 2 of 2

WALL THICKNESS MEASUREMENT



	WALL	THICKNESS	MEASUREMEN	NT (IN)	Deviation	
Location	w1	w2	w3	w4	Δw (max-min)	TOLERANCE
READING 1 L= 0"	. 389	.395	384	378	-017	
READING 2	.274	.279	-249	-248	031	
READING 3	,387	,396	.379	. 3 7 3	.623	
READING 4	, 5/6	.523	524	.515	.009	0.062"
READING 5	,381	.347	- 342	377	.020	
READING 6 L= 15	259	.270	. 265	.255	-015	
READING 7	,387	-385	.382	,386	.006	

Calibration Result

Actual Block Thickness: 250-750

Sitescan 250 Measured Thickness: 250-730

Measured by: Man. L	Audited by:	Jul 645 Preliminary A	(pproval:
Date: [2/08//	Date:	12-8-13 15 (Albill)	Date:

Rev	Date	Change	Revised by Approved
Α	05.04.27	New Issue (P/O D412-664-201)	KJ/JLM
В	06.03.09	Tolerance for 5.237 was +/-0.001	KJ/JLM
C	07.05.08	Dwg Rev. updated	KJ/JLM
D	10.08.03	Dimension 124.362 was 124.36	KJ 10 IA
Е	12.06.04	Wall thickness form added	KJ A

Item	Qty -241	Qty -241B	Part Number	Description
1	Х		D212-664-241	CROSSTUBE ASSEMBLY (205/212 HIGH AFT)
2		Х	D212-664-241B	CROSSTUBE ASSEMBLY (214 HIGH AFT)
3	1	1	D6006-129	CROSSTUBE
4	2	2	D2940-1	SUPPORT
5	4	4	D3595-063-530	RUBBER CUSHION
6	4	4	MS21920-28	CLAMP (OR MS21920-30)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

D

1) MATERIAL MANUFACTURED FROM D6006-129

FINISHED LENGTH = 124.362±0.020

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4 1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4 2

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS
- WEIGHT: D212-664-241 = 44.2 lbs (PER IIN-D212-664) D212-664-241B = 44.2 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE
- RUN CUTTER OFF PART BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 5 PASSES MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-28 CLAMPS (OR -30) WITH D3595-063-530 RUBBER CUSHIONS TO SECURE THE D2940-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING

SHOP COPY RETURN 10 ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENUMENT WITHOUT NOTICE WITHOUT NO. WORK ORDER MC 5990 NO. 12/06/19

6CU #11-614

DEO ATTACHED

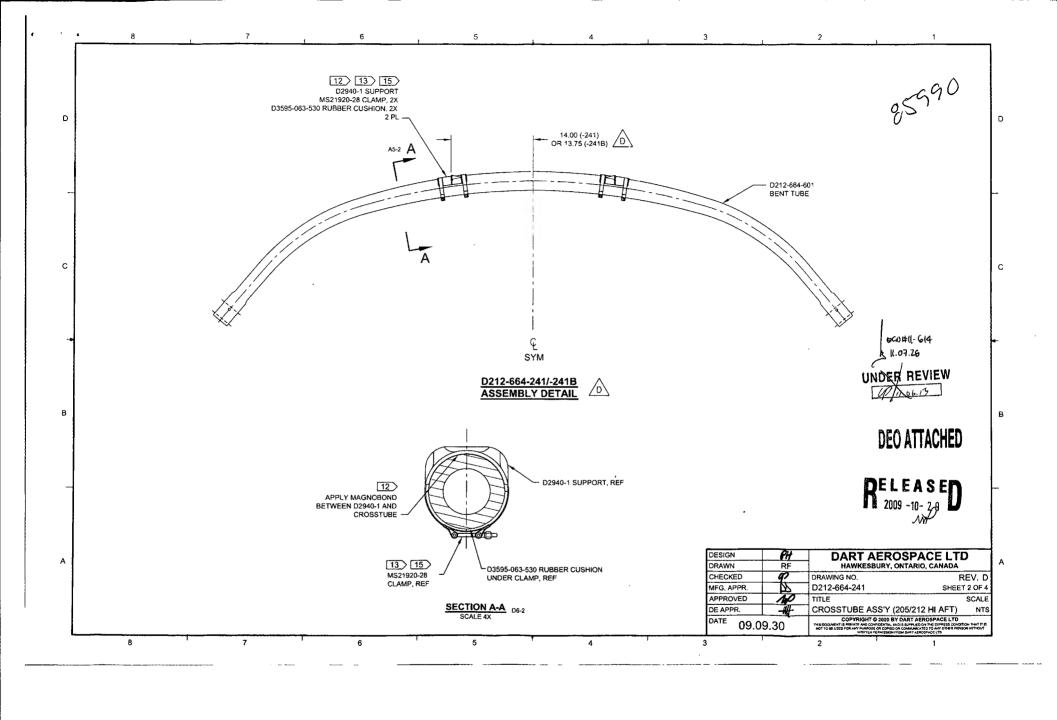
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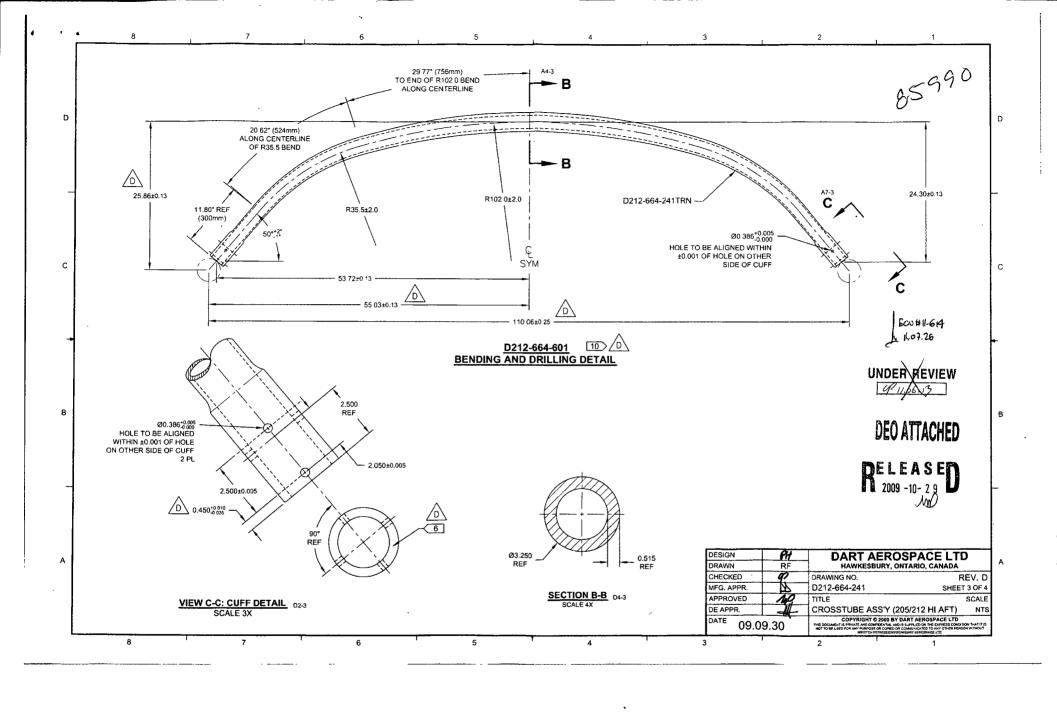
В

REFORMAT/REVISE GENERAL NOTES/PART LIST: 09.09.30 REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; ADD -241B (ZN D4-2, 84-2), REMOVED REF & ADD TOLERANCES (ZN D8-3 & C4-3, C6-3 & A8-3): RELOCATED FLAG #6 PER PAR 08-046 (ZN A5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE REMOVE -1009 ABRASION STRIP: ADD MAGNOBOND 07.03.08 6398, CUSHION, REVERSE CLAMPS ADD HOLES FOR COMPATABILITY WITH BHT/AA 05.02.04 SKIDTUBES Α NEW ISSUE PH 00.12.12 REV. DESCRIPTION BY DATE

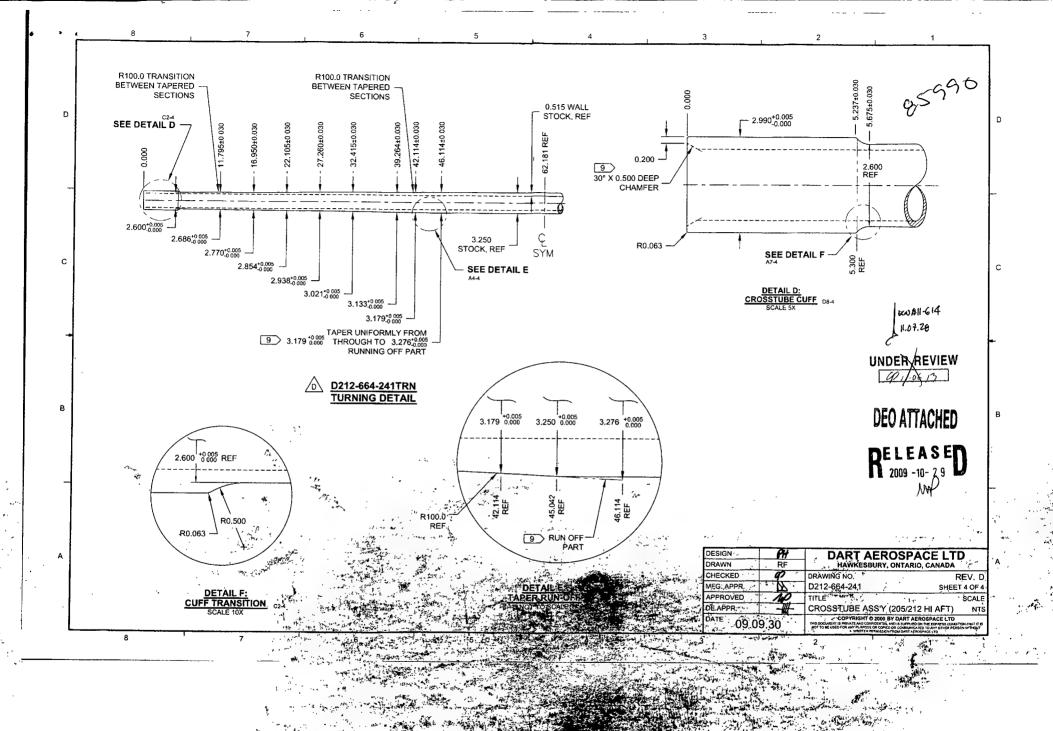
		DECOND TOTAL	0
DESIGN	PH	DART AERO	SPACE LTD
DRAWN	RF		ONTARIO, CANADA
CHECKED	P	DRAWING NO.	REV. D
MFG. APPR.	77	D212-664-241	SHEET 1 OF 4
APPROVED	10	TITLE	SCALE
DE APPR.	-#	CROSSTUBE ASSY (2	205/212 HI AFT) NTS
DATE 09.0	9.30	THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AN	DART AEROSPACE LTD to is supplied on the express condition that it is the communicated to any other person without

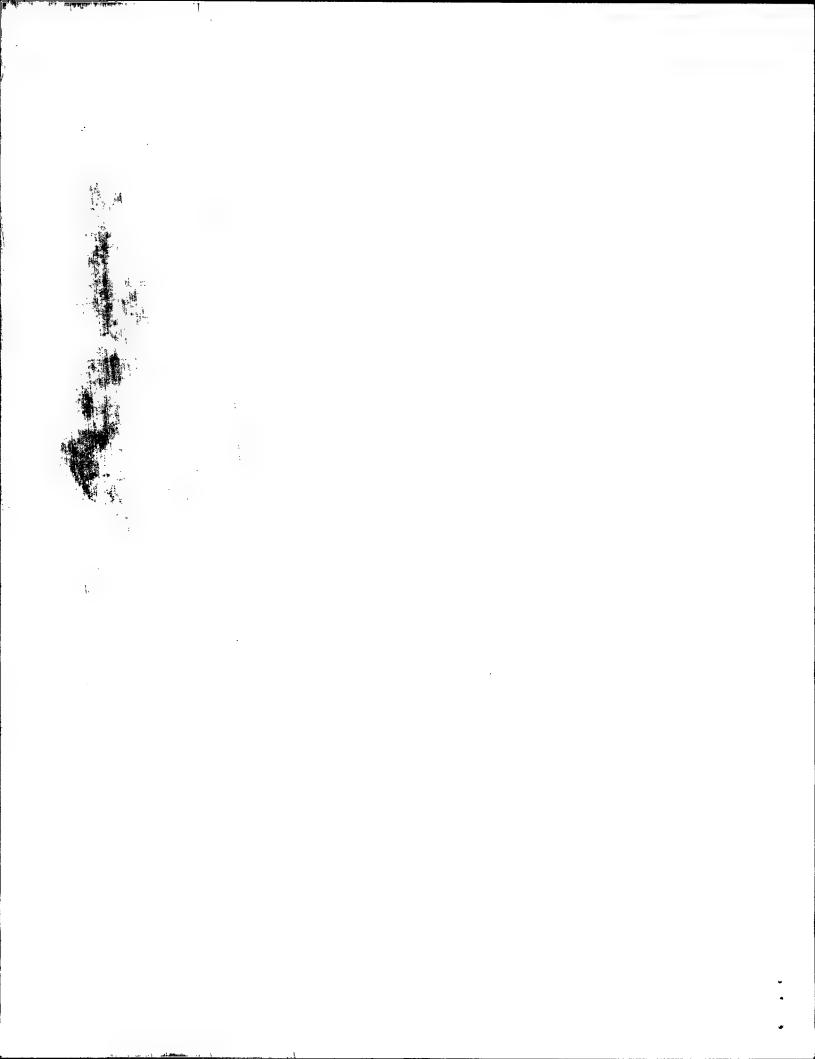
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DRAWING NO.	TITLE	REV. D	DART AEROSPACE LT	D.E.O. NO.	SHEET NO.	SCALE
D212-664-241	CROSSTUBE ASSY (205/2	12 HI AFT)	ENGINEERING ORDE	R D212-664-241-D-1	SHEET 1 OF 2	NTS
DRAWN K	CHECKED	N	MFG. APPR.	APPROVED MP	DE APPR.	
DATE 11.04	.07 DATE	11.04.11	DATE /1.04.12	DATE 11/04/12	DATE 11-04.12	

PURPOSE:

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

IS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

2011 -04- 18 P UNDER REVIEW

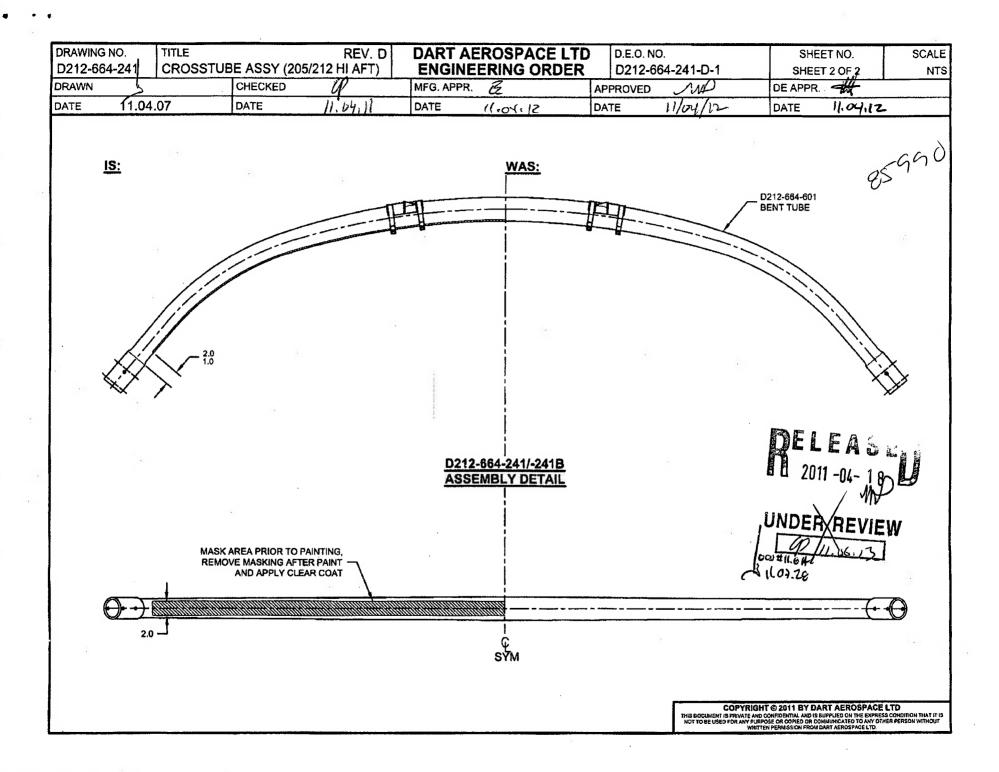
(211. 6. 13

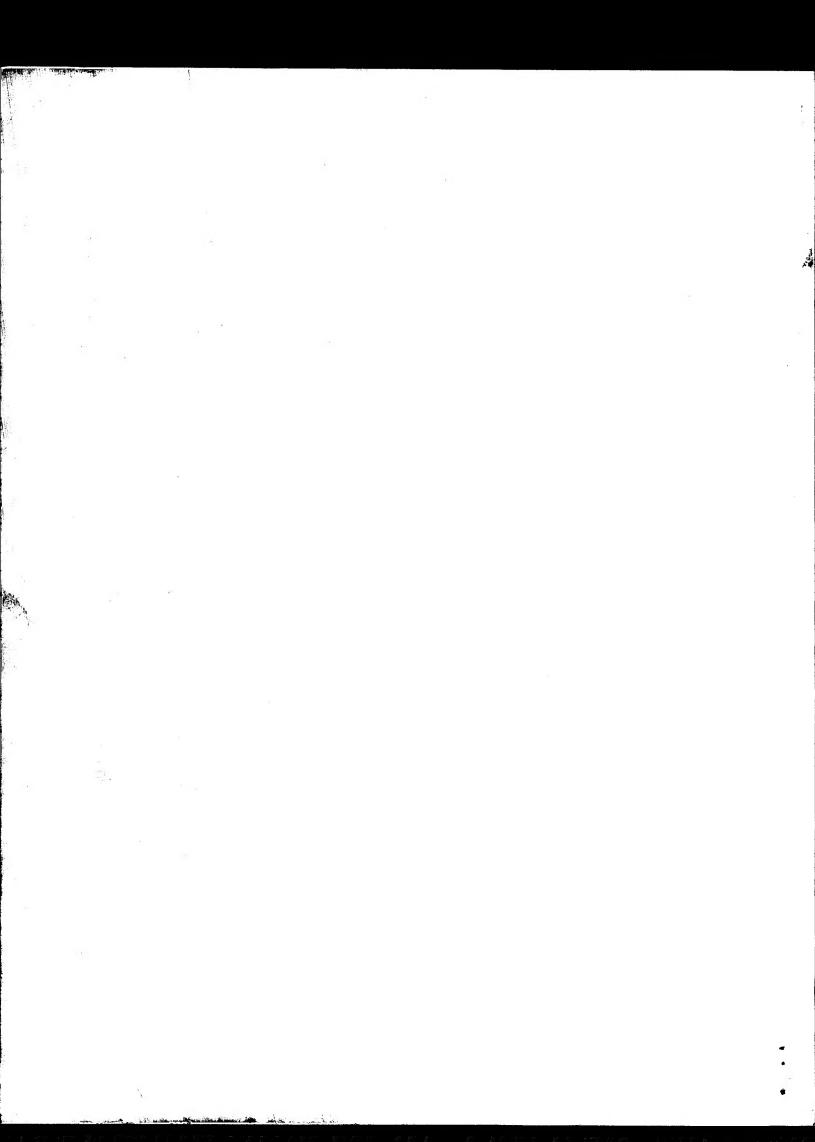
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DRAWING NO.	TITLE	REV. D	DART AEI	ROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-241	CROSSTUB	E ASS'Y (205/212 HI AFT)	ENGINEE	RING ORDER	D212-664-241-D-2	SHEET 1 OF 1	NTS
DRAWN 97)	CHECKED ASS	MFG. APPR.	/%	APPROVED AND	DE APPR.	
DATE 11.07.	.15	DATE 11.07.20	DATE	17.07.21	DATE 11/27/21	DATE 11.07.2	1

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

CHANGE:

IS:

item	Qty -241	Qty -241B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
				ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
				TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) TO INSTALL D2940-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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